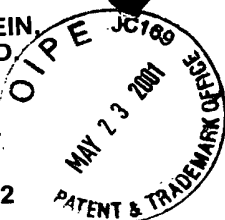


CAESAR, RIVISE, BERNSTEIN,  
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12th Floor  
Seven Penn Center  
1635 Market Street  
Philadelphia, PA 19103-2212



Attorney Docket No.: E1067/20011  
Customer No. 03000

Date: May 21, 2001

PATENT APPLICATION

AMENDMENT TRANSMITTAL

In re the Application of David J. Brayden

Application No.: 09/386,709  
Filed: August 31, 1999

Confirmation No.: Group Art Unit: 1641  
Examiner: Jennifer Graser

For: ORAL VACCINE COMPOSITIONS

Attn: Box Fee Amendment  
Commissioner for Patents  
Washington, D.C. 20231

RECEIVED

MAY 25 2001

TECH CENTER 1600/2900

Sir:

■ Transmitted herewith is an Amendment in the above-identified application.

□ A verified statement to establish small entity status under 37 C.F.R. §§1.9 and 1.27 is enclosed.

□ Small entity status of this application under 37 C.F.R. §§1.9 and 1.27 has been established by a verified statement previously submitted.

■ The filing fee has been calculated as shown below:

				SMALL ENTITY			OTHER THAN A SMALL ENTITY	
(Column 1)	(Column 2)	(Column 3)		RAT E	ADD'L FEE	O R	RATE	ADD'L FEE
	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA					
TOTAL CLAIMS	* MINUS 27	** 20	= 7	x 9	\$		x 18	\$ 126
INDEP CLAIMS	* MINUS 6	*** 4	= 2	x 40	\$		x 80	\$ 160
FIRST PRESENTATION OF MULTIPLE DEP. CLAIM				+135	\$		+270	\$ 0
					\$	O R		\$ 286

\* If the entry in Column 1 is less than the entry in Column 2, write "0" in Column 3.

\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.

\*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space.

The "Highest Number Previously Paid For" in this space (Total or Independent) is the highest number found from the equivalent box in Column 1 of a prior Amendment or the number of claims originally filed.

The Commissioner is hereby authorized to charge payment of any further filing fees under 37 C.F.R. §1.16 for presentation of extra claims or credit any overpayment to Deposit Account No. 03-0075. A duplicate copy of this sheet is attached if any fees are calculated to be due.

Respectfully submitted,

CAESAR, RIVISE, BERNSTEIN  
COHEN & POKOTILOW, LTD.

By

Robert S. Silver  
Reg. No. 35,681

Amat  
11/H (10)  
PATENT 5/30/01

Attorney Docket No. 99.1081.US (E1067/20011)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
PATENT EXAMINING OPERATION

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MAY 25 2001

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Applicant : DAVID J. BRAYDEN  
Serial No. : 09/386,709  
Filed : AUGUST 31, 1999  
For : ORAL VACCINE COMPOSITIONS  
Group : 1641  
Examiner : JENNIFER GRASER

AMENDMENT

Attn: Box Fee Amendment  
Commissioner for Patents  
Washington, DC 20231

Sir:

In response to the Office Action dated February 5, 2001, please amend the above application as follows:

IN THE CLAIMS:

Please cancel pending method claims 13-20 without prejudice and add the following composition claims:

21. A vaccine formulation for oral administration comprising:  
a therapeutically effective amount of a coacervate, the coacervate comprising microparticles of at least one antigen and a biocompatible, biodegradable polymer, wherein the at least one antigen is entrapped or encapsulated by the biocompatible, biodegradable polymer and at least 50% of the microparticles are less than 5 $\mu$ m; and

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